

UO Physics SAIL Camp

August 11-15, 10AM - 3PM Daily

Willamette Hall, Room 112

SCHEDULE

MONDAY AUGUST 11:

- 10:00 – 10:30 am Introduction, welcome
- 10:30 – 11:15 am “Controlling the Variables” (Some dramatic demonstrations, especially related to waves and sound, with Dr. Stan Micklavzina)
- 11:15 – 12:00 pm “Nano,” “Mega” & More – (Issues of size and scale with Prof. Raghu Parthasarathy)
- 12:00 – 1:00 pm Lunch (provided). UCORE Pod Leader: Kathryn Paisner
- 1:00 – 2:15 pm Science and Soap Bubbles (Hands-on explorations of the mysteries of soap film mechanics – Prof. R. Parthasarathy)
- 2:15 – 3:00 pm Nanoelectronics (Cutting edge nanoelectronics – Presented by Prof. Heiner Linke)

TUESDAY AUGUST 12:

- 10:00 – 12:00 pm Microfabrication and Optics (Activities– Profs. M. Deutsch and H. Linke)
Various locations – meet first in Willamette 112
- 12:00 – 1:15 pm Lunch (provided) and outdoor concert – EMU Amphitheater
- 1:15 – 2:30 pm The Physics of Music (Presented by Prof. Mike Raymer)
- 2:30 – 3:00 pm Self-assembled materials (Presented by Prof. R. Parthasarathy)

WEDNESDAY AUGUST 13:

- 10:00 – 12:00 pm Microscopic motion (Hands-on activities exploring microscopic motion – seeing it, and controlling it – Prof. R. Parthasarathy)
In Willamette 112 and also Willamette 171
- 12:00 – 1:00 pm Lunch (provided). UCORE Pod Leader: Kathy Hadley
- 1:00 – 3:00 pm Climbing the Rock Wall at the UO Gym (Rock climbing, plus some of the physics of rock climbing – Prof. Heiner Linke, and Prof. Dietrich Belitz)

continued on back

THURSDAY AUGUST 14:

- 10:00 – 11:00 am Electron microscopy (Explorations with electron microscopes – Dr. A. Persson)
In the Integrative Science Complex (ISC) – meet first in Willamette 112
- 11:00 – 12:00 pm Self-propelled fluids (A demonstration – Prof. Heiner Linke)
- 12:00 – 1:00 pm Lunch (provided). UCORE Pod Leader: Eric Senning.
- 1:00 – 1:45 pm Financial Aid for College (A presentation – Paul Carlile, UO Office of Student Financial Aid & Scholarships)
- 2:00 – 3:00 pm **Particles, Energy, and the Accelerating Universe** (Presented by Prof. Jim Brau)

FRIDAY AUGUST 15:

- 10:00 – 11:00 am Energy and Hydrogen (Presented by Prof. Greg Bothun)
- 11:00 – 12:30 pm Fractals and Art – the “Pollockizer” (Art + Physics + A Painting Machine – Prof. R. Taylor and students)
Outside Willamette 112, or on top of ISC1
- 12:30 – 1:30 pm Lunch (provided). UCORE Pod Leader: Dash Vitullo.
- 1:30 – 2:00 pm Graduation / Conclusion
- 2:00 – 3:00 pm Group activity (with the other SAIL camps)
Volleyball courts, near the dorms (north of the Living Learning Center)